## REMARKS

Applicant appreciates the Examiner's attention to the above referenced application. Claims 1-25 were rejected. Claims 1-25 have been amended. Claims 1-25 are now pending, of which claims 1, 10, and 18 are independent.

## 35 USC § 103 Rejection of the Claims

Claims 1-25 are rejected under 35 USC §103(a) as being unpatentable over Steinberg et al. (US 20060203107), hereinafter Steinberg, in view of Kuth (US 20040078758), hereinafter Kuth.

Claims 1-25 have been amended to more particularly recite the present invention. Specifically, the independent claims have been amended to more clearly recite the limitations of capturing a selected playback image, the playback image being one of a series of display images generated over time by a graphical user inteface (GUI) of an application program being tested by a cognitive control framework (CCF) system in a playback phase in response to simulated user inputs to the application program. Further limitations of detecting at least one active display object in a recorded image, the recorded image being one of a series of display images generated over time by the GUI of the application program being tested and captured during a recording phase of the CCF system based on user inputs to the application program, the user inputs, time interval between user inputs, and resulting display data forming an execution scenario script for use in testing the GUI of the application program during the playback phase for generating playback images, the at least one active display object being a portion of the recorded image being acted upon as a result of user input, were also added. Further limitations of searching subsets of hypotheses of locations of display objects in the captured playback image for a matching display object corresponding to the detected at least one active display object of the recorded image according to predetermined criteria; recalculating old actions for the matching display object in the playback image by applying actions according to the execution scenario script and loading a next set of data, when the corresponding matching display object is found; and checking dynamic conditions, including the time between user inputs, were also clarified.

Steinberg discloses a facial recognition image analysis system. Steinberg teaches that a captured image may be analyzed to determine human facial features.

Kuth discloses a system for analyzing medical images and playback of medical image information.

Although both Steinberg and Kuth are generally relevant in that they disclose image processing applications, neither Steinberg or Kuth, alone or in combination provide any teaching whatsoever of the presently amended claims. The present invention relates to automated testing of GUIs of application programs across different implementations of the application programs on different computing systems and operating systems. The cited prior art does not disclose testing GUIs of application programs, capturing user inputs to the application program and resulting changes to images displayed by the application program's GUI during a recording phase of a cognitive control framework (CCF) system, generating an execution scenario script containing the user inputs and display data, the execution scenario script being used to drive the CCF system during a playback phase of the system to further analyze and test the application program. Further, the cited prior art does not disclose searching for subsets of hypotheses of locations of display objects in the captured playback image for a matching display object corresponding to the detected at least one active display object of the recorded image according to predetermined criteria; recalculating old actions for the matching display object in the playback image by applying actions according to the execution scenario script and loading a next set of data, when the corresponding matching display object is found; and checking dynamic conditions, including the time between user inputs.

Therefore, the present claims 1-25 are allowable.

## CONCLUSION

Applicant respectfully requests reconsideration in view of the remarks and amendments set forth above. If the Examiner has any questions, the Examiner is encouraged to contact the undersigned at (480) 715-3681. Please charge any shortage of fees in connection with the filing of this paper, including extension of time fees, to Deposit Account 50-0221 and please credit any excess fees to such account.

Respectfully submitted,

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Dated: 4/16/10

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